BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. **14.888Lakhs**

Name of Work:-Change of Place for Improvements to road and Side drains7th cross road of Attur Layout in Attur ward no-03(Improvements to roads and Side drains at Adityanagara in Attur ward no-03).

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	Earth work excavation by manual means in Hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH chapter 3. No. 138/ Item No. 19.1/ PWD SR 2016-2017	Cum							
	Road levelling		1	190.00	5.50	0.40	418.00		
	Road berm cutting		2	180.00	0.80	0.20	57.60		
	Drain:-L/Side		1	270.00	0.70	0.45	85.05		
	R/Side		1	190.00	0.70	0.45	59.85		
							620.50	**115.00**	**71358.00**
2	KSRB 2-2.2 : Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m , in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m specification, specification. No. KBS 2.1(b) / 2.3.5, No. 5/ Item No. 2.4/ PWD SR 2016-2017	Cum							
	Culvert		2	5.50	1.20	0.80	10.56		
							10.56	**280.00**	**2957.00**
3	KSRRB M100-1 Loading and un loading of stone boulder/Stone aggregates/ sand/kanker/ Moorum.KSRRB M100-1:Placing tipper at loading point,loading with front end loader,dumping,turning for return trip,excluding time for haulage and return trip complete as per specifications(Item no17.1,Page no130,PWD SR 2016-17	Cum							
			Vide Item No. 1+2				**631.06**	**71.50**	**45121.00**
4	KSRB 4-1.3:Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @0.57cum machine mixed,machine mixed,concrete laid in layers not exeeding 15cms.thick, well compacted in foundation,including cost of all materials,labour,HOM of machinery,curing complete as per specifications.Specification no KBS4.1,4.2(Item no 4.3,Page no12,PWD SR 2016-17)	Cum							
	Culverts		2	5.50	1.20	0.15	1.98		
							1.98	**5140.00**	**10177.00**

5	KSRB 4.2.2 : Providing and laying in position Reinforced cement concrete of design mix M20 with OPC cement @ 400kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.460cum with superplastesisre @ 3lts conforming etc as per specification&direction of the engineer incharge of work (pwd sr2015-16,p.no13,sno4.11)	Cum							
	For culvert bottom		2	5.50	1.00	0.30	3.30		
	Side walls		4	5.50	0.25	0.70	3.85		
	For deck slab		2	5.50	1.00	0.23	2.53		
	Approach concrete		4	5.45	0.60	0.15	1.96		
							11.64	**6360.00**	**74043.00**
6	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per specifications.Specification noKBS 4.6.3,TMT bars Fe55 0(pwd sr2016-201716,p.no17,s.no4.46)	Tonne,s							
	0.10Tonne,s / cum						**0.97**	**60070.00**	**58148.00**
7	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, attached pilasters,bittresses,buttresses plinth and string course including cost of all materials,labour complete asperspecificationS.Specification no.KBS 4.6.2(pwd sr2016-2017),p.no15/4.31)	Sqm							
	Bottom concrete sides		2	13.00		0.25	6.50		
	Side walls		8	5.50		0.70	30.80		
	Deck slab		2	5.50	0.60		6.60		
	Deck slab alound Sides		2	13.00		0.23	5.98		
							49.88	**301.00**	**15014.00**
8	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete do 7.5 cms thick(P.No 25 I.No 5.31.1)	sqm							
	Drain:-L/Side		1	270.00	1.35		364.50		
	R/Side		1	190.00	1.35		256.50		
							621.00	**663.00**	**411723.00**
9	KSRRBM400-17,Providing, laying, spreading andcompacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site,laying in uniform layers with paver in sub base/base course on well prepared surface and compacting with vibratory roller to achieve the desired dencity complete as per specifications.MORTH Specification No.406(Item no20.18,Page no157 ,PWD SR 2016-17)	Cum							
			1	190.00	5.50	0.25	261.25		
							261.25	**1765.00**	**461106.00**

10	KSRRB M500-6,Providing and applying primer coat with S.S.bitumen emulsion on prepared surface of granular base such as WBM,WMM including cleaning of road surfase and spraying primer at the rate of .60kg/Sqm using mechanical means complete as per specifications. MORTH Specifications No502 (ITEMNO21.6,Page no157,PWD SR 2016-17)	Sqm							
			1	190.00	5.50		1045.00		
							1045.00	**25.30**	**26439.00**
11	KSRRB M500-19: Providing and laying bituminous concrete 40mm thick with 100/120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desire compaction as per MORTH specification clause No. 500.9 complete In all respects as per specifications. MORTH specification NO. 509, No.165 Item No. 21.22.2.PWD SR 2016-17	Cum							
			1	190.00	5.50	0.040	41.80		
							41.80	**7480.00**	**312664.00**
12	Miscellaneous charges	L/S							50.00
								Total RS	**1488800.00**
(Rupees Fourteen Lakh eighty eight Thousand eight hundred only)									

Certificate

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of 2016-17
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward no: 03

Assistant Executive Engineer
Yelahanka New town Sub Division
Bangalore-64

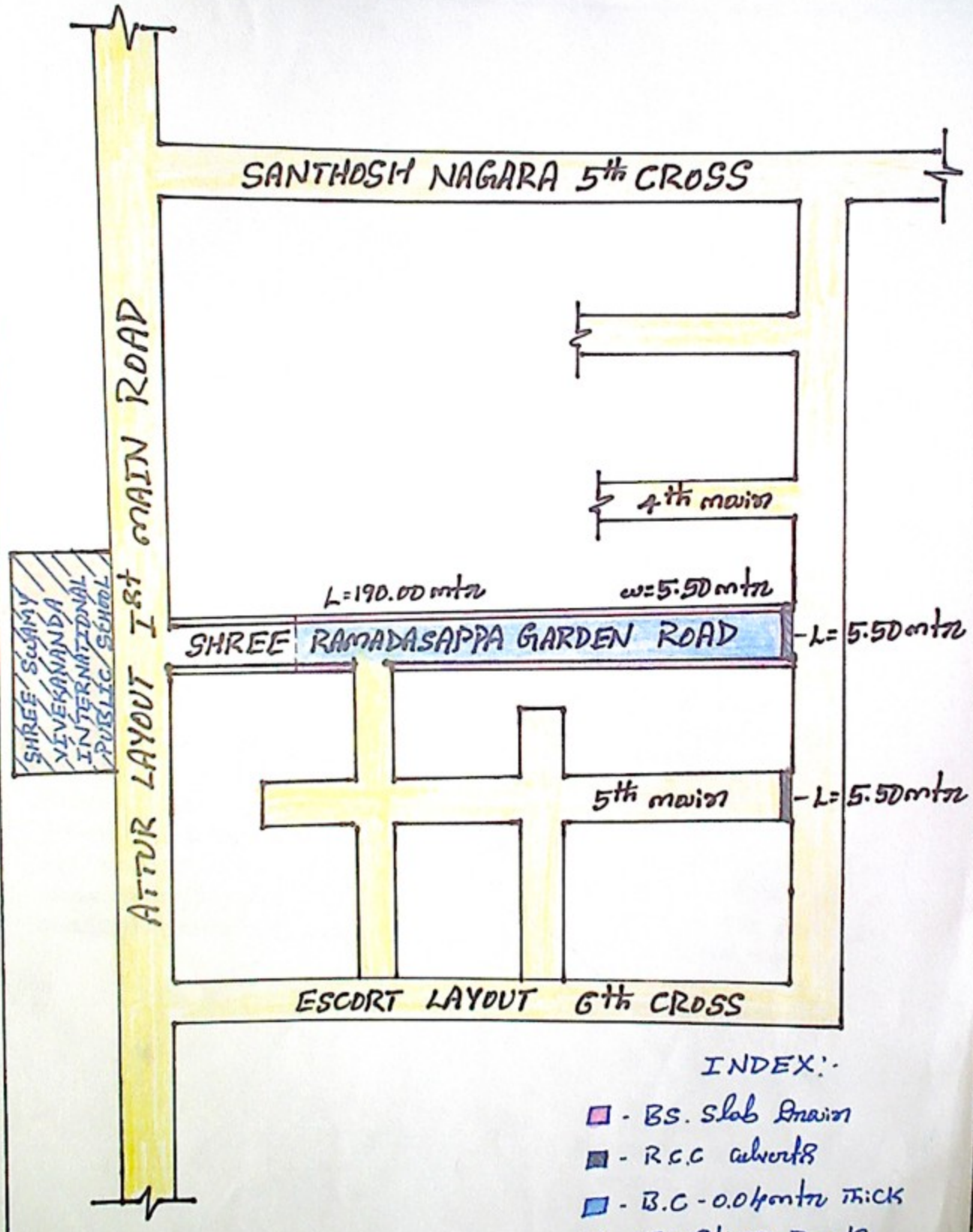
Executive Engineer
Yelahanka Division
Bangalore-64

TECHNICALLY SANCTIONED FOR Rs. 14,88,800=00
Rupees Fourteen Lakhs Eighty Eight Thousand & Eight Hundred
Under Pr 1771 - 2016.17
Registered as CE ( ) No
Subject to conditions contained in enclosed memo EE ( ) No
Dt
EE/NNC/TS/89/16-17
Dated 13.06.2017 Estimate/Sanctioned No
Rs. 14,88,800=00

3

Executive Engineer

Name of work:- change of place for improvements to road & side drains 7th Cross road of Attur Layout in Attur ward NO-03.



AE-03

ಸಹಾಯಕ ಕಂಪೆನಿ ಪಾಲಿಕೆ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ನಗರ ಉಪವಿಭಾಗ,